

The background features abstract, overlapping green geometric shapes in various shades of green, creating a modern and dynamic look. The shapes are primarily triangular and polygonal, with some areas appearing more translucent than others.

# GreenLine Synergy

Process Patent Protected Pre-Vegetated Blankets

# Current-Traditional Erosion Control Methods



## ▶ Sod - benefits

- ▶ Immediate vegetation
- ▶ Immediate soil coverage

## ▶ Sod - drawbacks

- ▶ Needs upfront maintenance - consistent watering
- ▶ Susceptible to pests, disease, and fungus
- ▶ Limited applications - turf grass



## ▶ Seed & Erosion Control Blanket - benefits

- ▶ Immediate soil coverage
- ▶ Cost effective

## ▶ Seed & Erosion Control Blanket - drawbacks

- ▶ Can prevent germination or establishment
- ▶ Under-cutting or washout
- ▶ Requires more long-term maintenance

# Current-Traditional Erosion Control Methods



- ▶ **Hydroseeding - benefits**
  - ▶ Clean appearance
  - ▶ Direct contact with initial moisture
- ▶ **Hydroseeding - drawbacks**
  - ▶ Susceptible to washout
  - ▶ Susceptible to drying out
  - ▶ Uneven distribution of seed



- ▶ **Live Plants - benefits**
  - ▶ Immediate vegetation
  - ▶ Advanced growth
- ▶ **Live Plants - drawbacks**
  - ▶ Negative space between plants
  - ▶ Needs upfront maintenance - consistent watering
  - ▶ Susceptible to washout



# Pre-Vegetated Blankets for Erosion Control



Most Crops Ready  
to ship in 4-6 weeks



Bio-diversity,  
Customizable Seed  
Blends



Secure Steep Slopes  
& Compromised Areas



Immediate Coverage

Rapid Establishment  
& Easy Maintenance



Convenient Loading  
& Transport



Upfront Maintenance -  
Consistent Watering

Timed Installation

# Where can Pre-Vegetated Blankets be used?

- ▶ Steep slope
- ▶ Drainage swale or channel
- ▶ DOT Roadside
- ▶ Retention basin
- ▶ Rain garden
- ▶ Green-roof
- ▶ Shoreline
- ▶ Streambank
- ▶ Wetland
- ▶ Woodland
- ▶ Prairies
- ▶ Many more!







# Private Residence - Wisconsin Dells, WI

## Planning/Development

- ▶ Customer wanted shoreline restoration and landscape design centered on erosion control
- ▶ Slope was covered in invasive species, primarily crown vetch, black locust, and poison ivy
- ▶ Site was at the end of a stormwater shed







## Private Residence - Wisconsin Dells, WI

### Growing/Preparation

- ▶ Simple seed mix of little blue prairie drop and black eyed susan for color
- ▶ Basal root structure is a key component



# Private Residence - Wisconsin Dells, WI

## Installation

- ▶ Steep slope installation:
  - ▶ Hard to access and negotiate
  - ▶ Logistics
  - ▶ Temporary irrigation system







# Private Residence - Wisconsin Dells, WI

## Post Installation/Establishment

- ▶ Water distribution
- ▶ Storm events immediately following installation
  - ▶ Soil stabilization/washout
- ▶ Overseeding
- ▶ Bloomed first year



# Wisconsin Department of Transportation - Middleton, WI



## Growing/Preparation

- ▶ Contracted to grow 3 separate types of blanket engineered for retention basins
- ▶ Training and education for installation



# Wisconsin Department of Transportation - Middleton, WI



## Loading/Transport

- ▶ Pulling and stacking trays
- ▶ Watering
- ▶ Loading
- ▶ Recommend enclosed semi or flatbed truck



# Wisconsin Department of Transportation - Middleton, WI

## Post-Installation

- ▶ WI DOT inspections
- ▶ Site conditions
  - ▶ Salt residue
  - ▶ Pollution
  - ▶ Winter exposure
  - ▶ Added aesthetic features
- ▶ Concentrated or peak flow areas



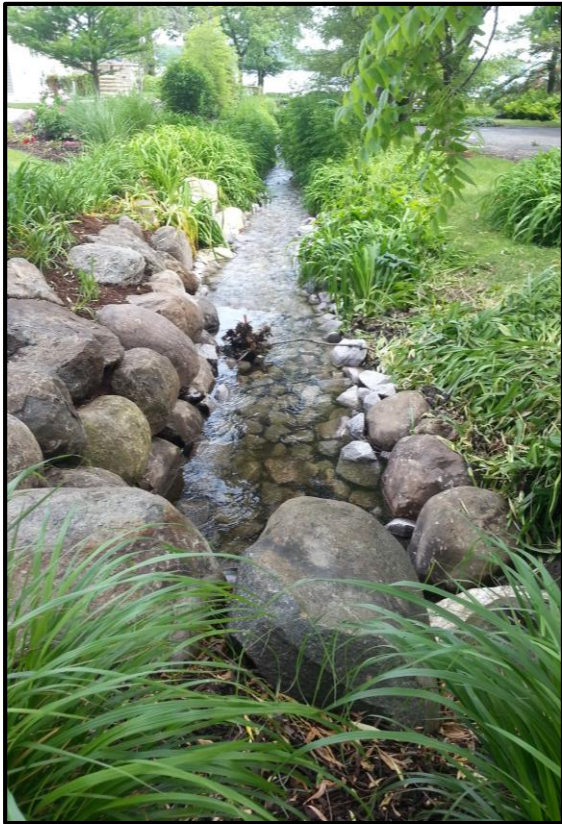


# Wisconsin Department of Transportation - Middleton, WI

## Establishment

- ▶ Expectations
  - ▶ Growth cycles
  - ▶ Responses to site conditions
- ▶ Density, diversity and weed management

# Municipality - Fontana, WI



## Planning/Development

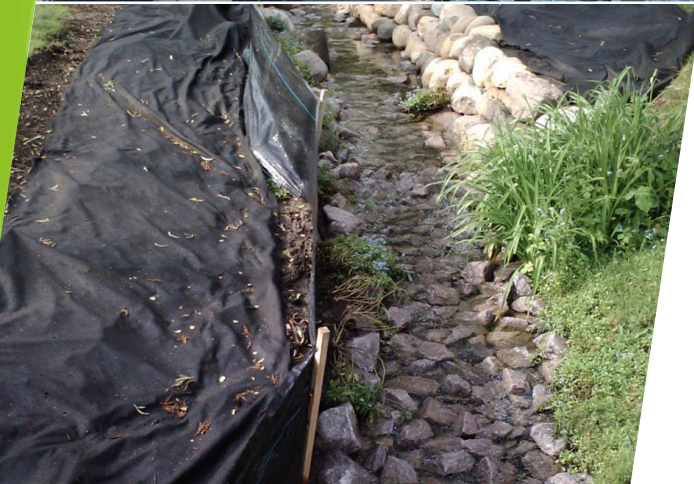
- ▶ Public perceptions
- ▶ Urbanized area
- ▶ Channelized drainage ditch
  - ▶ Spiking flow rates
  - ▶ Bank scour
  - ▶ Sediments
  - ▶ Pollutants



# Municipality - Fontana, WI

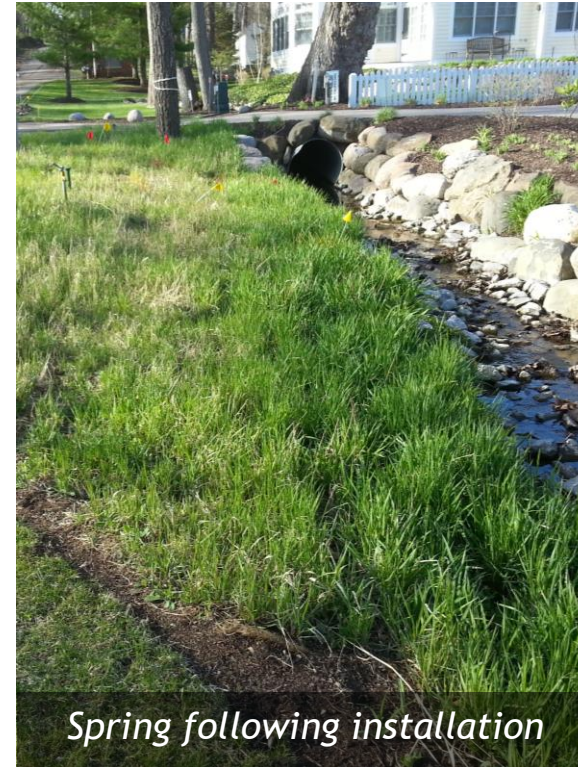
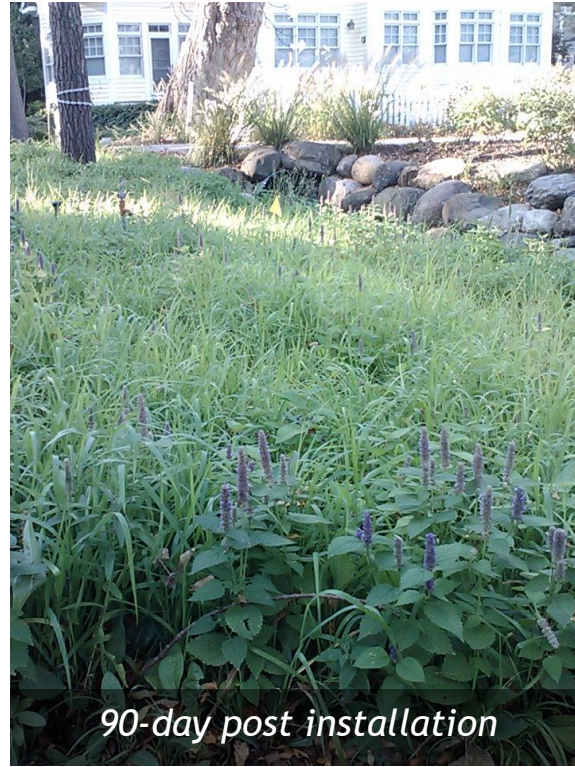
## Growing/Preparation/Installation

- ▶ 2 types of pre-vegetated blanket
- ▶ Complimented by container planting
  - ▶ Aesthetics
  - ▶ Accommodate use
- ▶ Seed bed preparation





# Municipality - Fontana, WI

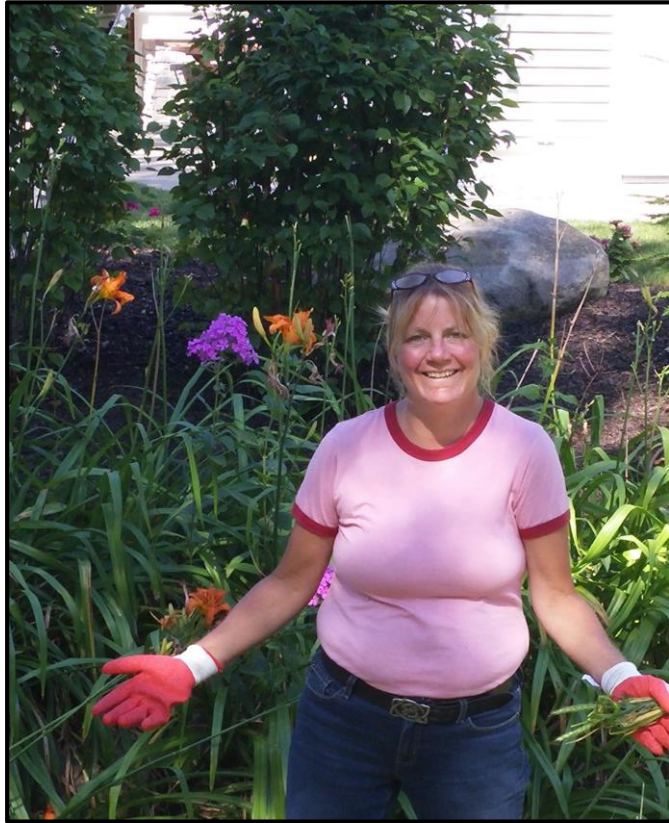




# Municipality - Fontana, WI



# Municipality - Fontana, WI



## Maintenance

- ▶ 5-year maintenance plan
- ▶ Removal of switch grass & rye
- ▶ No cover crop needed
- ▶ Prescribed prairie burn



# Questions??

Process Patent Protected Pre-Vegetated Blankets

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